



# Gesswein®

The Right Tools

Winter 2012



**Jewelry Tools, Equipment and Supplies Since 1914**  
**[www.gesswein.com](http://www.gesswein.com)**



Dear Valued Customer:

Since 1914, we've been a leading importer and distributor of fine tools, equipment and supplies for jewelry manufacturers and retail jewelers, and we remain committed to fulfilling our customers' needs.

2012 is a new year and new beginnings for Gesswein. We are proud to announce that we've moved into a new corporate headquarters! The new headquarters provides a more collaborative working environment, world class customer demonstration and training facilities, as well as room for continued growth.

Enclosed is our latest brochure which features a comprehensive line of carefully selected, competitively priced items to help your business thrive!

- Bench Items
- Casting
- ColoriT
- Cleaning
- Engraving
- Finishing Machines
- Imaging Solutions
- Measuring, Testing & Inspection
- Micromotor Systems
- New Products
- Plating Solutions & Supplies
- Porosity Removers
- Precious Metal Reclamation
- Rapid Prototyping
- Rolling Mills
- Welding

For general product information and customer service, please call us at: **Toll Free 800-243-4466** (Mon.– Fri., 9am–5pm EST) or e-mail us at: **info@gesswein.com**. Be sure to visit [gesswein.com](http://gesswein.com) for all the latest products, specials, and technical information. Our "Quick Order" form on the homepage makes ordering fast!

We look forward to working with you in the coming year and hope our business relationship continues for many years to come.

A handwritten signature in black ink, appearing to read 'Roger H. Gesswein Jr.', written in a cursive style.

Best Regards,  
Roger H. Gesswein Jr.  
Chairman and CEO



# Casting



## Galloni Pressovac — Compact Casting Solution!

- Ideal for tight shops and small castings
- Especially suited for RP model casting and same-day investment casting
- Can cast all metals: platinum, gold, silver, palladium alloys, titanium alloys and steel
- Melt and pressure-cast under vacuum and inert atmosphere
- Save on metal consumption and reuse
- No prior casting experience required

### Features:

- 3.5kW for extremely quick melt and cast
- Full 3 bar (45 PSI) of casting pressurization
- Microprocessor control for utmost precision
- Optical pyrometer (Pressovac) or optical and immersion pyrometers (Pressovac Dual)
- Automatic tilt mechanism (push button) and locking chamber for casting
- Solid aluminum water-cooled casting chamber and cover

### Specifications:

Power	3.5kW
Max. Temperature	3,632°F (2,000°C)
Max. Crucible Capacity	180g Pt, 150g 18K Au, 180g Ag, 100g Pd, 100g Steel
Max. Flask Size	3 1/2" dia. x 3 1/2" high
Air Requirement	90 PSI
Water Requirement	3L/min.
Vacuum Requirement	7 CFM
Inert Gas Requirement	Nitrogen, helium or argon
Electrical	230V, 1 Ph, 50/60Hz
Dimensions	23.6"W x 19.7"D x 18.9"H
Net Wt.	198 lbs.

Description	Item#	Each
Pressovac (optical only)	<b>265-0861</b>	<b>Please Call</b>
Pressovac Dual (optical and immersion)	<b>265-0890</b>	<b>Please Call</b>
7 CFM Vacuum Pump, 110V	<b>265-2404</b>	<b>\$745.00</b>
7 CFM Vacuum Pump, 220V	<b>265-2406</b>	<b>745.00</b>

## Galloni Okay Plus

Introducing Galloni's newest, high performance, fast action, medium-frequency centrifugal vacuum casting machine. Cast up to 350 grams of Platinum, 500 grams of 18K Gold and 400 grams of Silver in minutes using special ceramic crucibles.

The solid-state power generator is electronically controlled and the casting arm is easily balanced and accepts flasks up to 4" x 4" high.

Flask, ceramic crucible for gold, ceramic crucible for platinum, quartz stirring rod, eye shield and flask tongs are included.

### Features:

- Automatic movement of coil (pneumatic)
- Vacuum/Gas supply switch
- RPM regulator
- Optical pyrometer

### Specifications:

Max. Flask Size	4" x 4" solid wall
Water Cooling	3L/min.
Electrical	230V, 3.5kW, 1 Ph
Dimensions	24"W x 27"D x 37"H
Net wt.	165 lbs.

Description	Item#	Each
Okay Plus	<b>265-1121</b>	<b>Please Call</b>

# GALLONI

## Galloni G1 Power Plus

### Heated vacuum

### over-pressure casting machine!

The latest, most advanced vacuum over-pressure machine available worldwide, featuring low-frequency generator and fully proportional computer-controlled (PID) power output.

Unlike other vacuum pressure machines, this one contains crucible and flask in one chamber to ensure gas is applied at full pressure, without constriction. Full vacuum is applied in the chamber while inert gas is introduced into the crucible. Surface and subsurface porosity are virtually eliminated. Operation is simple: just add metal, place perforated or solid wall flask in position and press one button. Complete cycle takes 3–4 min. Optional graining unit also available — please call for additional information. Backed by a two-year warranty. CE approved.

### Specifications:

Power	9kW
Max. Crucible Capacity	2.0kg 24K Au, 1.6kg 18K Au, 1.4kg Ag
Max. Flask Size	150mm dia. x 250mmH
Casting Cycle	4 min.
Air Requirement	100–120 PSI
Water Requirement*	3L/min.
Vacuum Requirement	40–60m <sup>3</sup> /hr. (sold separately)
Inert Gas Requirement	Nitrogen, helium or argon
Electrical	230V, 3 Ph, 50/60Hz
Dimensions	24"W x 24"D x 44 1/2"H
Net Wt.	407 lbs.

Description	Item#	Each
G1 Power Plus	<b>265-0842</b>	<b>Please Call</b>
60 m <sup>3</sup> /hr. Vacuum Pump	<b>265-0837</b>	<b>Please Call</b>
Stopper	<b>265-0849</b>	<b>\$84.25</b>

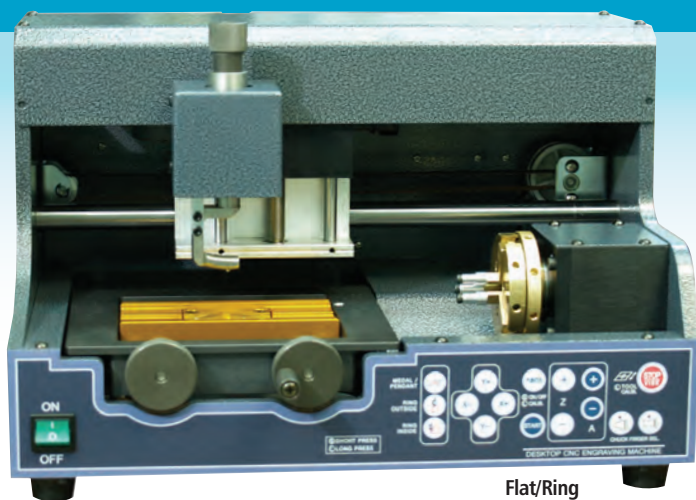
\*Pipe directly to cold water line or use a recirculating pump with tank or a chiller.



**NEW!**



# Engraving



Flat/Ring  
Engraver

## Best Built Computerized Engravers

### Engrave on alternative metals!

These systems engrave flat and curved surface areas and/or inside and outside flat and slightly domed rings. Accept many common items, including lighters, pens, pendants, rings and more. Engrave on alternative metals such as Titanium, Cobalt and Tungsten. Compact and quiet—perfect for use in small stores and shops. Choose from three different models.

#### Features:

- Intuitive software included
- Easy to engrave multiple lines
- Engrave in any font/alphabet
- Import images and logos
- Variable depth adjustment and automatic surface slope checker for uneven surfaces
- Replaceable diamond tip

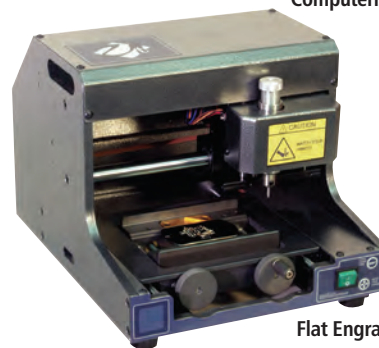
#### Capabilities:

- Speed up or slow down the process at the press of a button.
- Do single-line, double-line and hatching-style engraving.
- Individually assign different tool paths for engraving (e.g., double-line letter followed by hatching-style letter).
- Easily convert and engrave JPEG and BMP images.
- Includes USB cable.

**Sale!**



Actual Samples Engraved with Best Built  
Computerized Engravers



Flat Engraver

Specifications:	Flat/Ring	Flat	Ring
Acceptable Items	Flat/curved items, flat/domed rings	Flat only	Flat/domed rings only
Engraving Area	4 1/2"W x 4"D	4 1/2"W x 4"D	—
Electrical	110V	110V	110V
Dimensions (W x D x H)	15" x 11 3/4" x 10"	10 1/8" x 12 3/4" x 9 1/4"	10 1/8" x 11 1/4" x 9 1/4"
Ship. Wt.	65 lbs.	48 lbs.	42 lbs.

Description	Item#	Each	Sale
Flat/Ring Engraver	821-5910	<del>\$4,995.00</del>	<b>\$4,745.25</b>
Flat Engraver	821-5911	<del>2,995.00</del>	<b>2,845.25</b>
Ring Engraver	821-5912	<del>2,395.00</del>	<b>2,275.25</b>

## Roland MPX-90 Impact Engraver

### Imprint pictures, photos, logos and text on flat and curved items!

Roland's most powerful impact printer, capable of printing on harder materials than earlier models. Also opens to accept larger workpieces than before. Lets you imprint pictures, logos and text on flat and curved items. Works well on gold, silver, platinum, copper, brass, aluminum, iron, stainless steel and plastic (surface hardness must be 200 HV or less). Operates much faster than traditional engravers so customers won't have to wait. Easy to use, even with no engraving experience: plug the USB cable into your computer, install the engraving software, import a design, secure the workpiece and engrave. Compact and quiet.

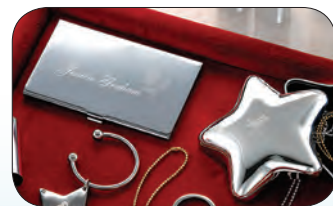
Includes center vise, test material, AC adapter, USB cable, software CD and complete instructions. Optional vise fixture kit also available (see below).

#### Specifications:

Max. Material Size	7.9"W x 3.9"D x 1.6"H
Max. Engraving Area	3.1"W x 3.1"D
Engraving Resolutions	529dpi (high-res), 353dpi (photo), 265dpi (text), 1058dpi (vector)
Engraving Speeds	2.0"/sec. (photo), 1.2"/sec. (high-res or text), 0.9"/sec. (vector)
Electrical	100–240V, 1.6A, 24W, 50/60Hz
Dimensions	11.3"W x 15.1"D x 12.2"H
Net Wt.	23.8 lbs.

#### Computer Requirements:

Intel Pentium 4 PC running Microsoft Windows XP or Vista, 512 MB RAM, CD-ROM drive and free USB port.



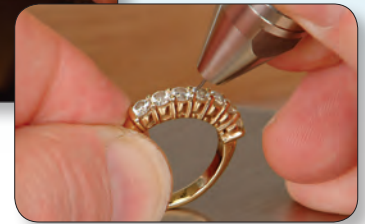
Description	Item#	Each
MPX-90 Impact Engraver	821-6866	<b>\$4,995.00</b>
Optional Vise Fixture Kit	821-6868	<b>299.00</b>
Replacement Print Head	821-6867	<b>349.95</b>

# Welding

## PUK 3s



**AFFORDABLE  
LASER  
ALTERNATIVE**



To see a short video of the PUK 3s System or for more info, visit [gesswein.com](http://gesswein.com).

**PUK 3s Professional Plus  
with Mezzo Stereomicroscope**

## PUK 3s High-Precision Arc Welder

### Welds silver better than a laser!

The PUK precision welding equipment puts a whole host of possible applications at your fingertips. Welding on fittings, adding metal to a work piece, joining items prior to soldering, welding a loop, fixing porosity or welding seams are just a few examples.

PUK allows adding of metal, especially where material is missing, in fractures, dents or pores. With the aid of welding wire, material can simply be added and built up. Generally speaking, all metals or alloys suitable for TIG welding or laser welding, are also suitable for welding with the PUK 3s including precious metals and precious metal alloys, as well as many types of Steel, Titanium, Nickel and Tin alloys (costume jewelry) at a fraction of the cost.

### Features:

- High-frequency pulse welding with extra power for welding silver
- Expanded system memory with five different programmable slots
- Recall function for repeating your last three welding parameters at the touch of a button
- Optional foot switch for manual triggering
- Low heat
- Repair with ease
- Adding metal or welding wire is no problem with the PUK
- Save time when soldering
- Save time on repairs
- "Clean" welds with minimum gas consumption
- Easy to use, learn how in minutes
- Extremely low running costs
- Maintenance free
- Small and manageable
- Quality "Made in Germany" CE approved and has the "GS" safety standards certification
- 3 Year Warranty

### PUK 3s Modes:

- **High Frequency** - For better welding of silver only
- **Standard** - For all general metals
- **Gap** - For welding precious and semi precious metals. Also good for welding in angled area
- **Micro** - Ideal for very fine welding

### Mezzo Welding Microscope:

- Stereomicroscope with 10x magnification
- LED – lamp for optimum lighting
- Eye-protecting filter
- Liquid-crystal shutter is DIN-CERTCO tested and approved
- Automatically switches from clear setting (Luminescence DIN3) to its dark setting (Obscurity DIN11) protecting eyes from the glare of the electric arc
- An additional parameter offers permanent protection against UV/IR rays
- Freely adjustable
- Ergonomic design

### Both Systems Include:

- Stainless steel controller
- Mezzo stereomicroscope
- Welding handpiece
- Set of 10 reversible electrode tips
- Flat electrode pliers
- Cross-locking electrode tweezers
- Electrode clamp
- Diamond disc sharpener for cleaning electrode tips
- 10' gas hose and instructions

### Specifications:

	<b>3s Professional</b>	<b>3s Professional Plus</b>
Power Range	10–240A	9–320A
Power Settings, Std./Micro	10/10	12/10
Impulse Range, Std./Micro	4–24ms/4–8ms	4–30ms/4–12ms
Impulse Settings	5	9
Welding Speed	0.8 sec.	0.8 sec.
Inert Gas	Requires argon gas tank	Requires argon gas tank
Electrical	110V, 50/60Hz	110V, 50/60Hz
Dimensions		
Controller	10"W x 11"D x 6"H	10"W x 11"D x 6"H
Handpiece	5" long	5" long
Ship. Wt.	35 lbs.	36 lbs.

Description	Item#	Each
PUK 3s Professional with Mezzo	<b>830-0992</b>	<b>\$4,745.00</b>
PUK 3s Professional Plus with Mezzo	<b>830-0991</b>	<b>5,245.00</b>
Optional Foot Switch	<b>830-0993</b>	<b>99.00</b>
Optional Argon Gas Regulator	<b>830-0974</b>	<b>159.00</b>
Replacement Electrode Tips, set of 10	<b>830-0978</b>	<b>47.25</b>

# Micromotor Systems

## Maxima 80 Micromotor System

### The system with adjustable torque!

Provides 30% more power due to improved controller circuitry and powerful neodymium handpiece magnet. Handles deburring, grinding, polishing, engraving, finishing and more.

Includes: controller with forward/reverse switch and overload protection, choice of high-torque PHP35 handpiece or high-speed PHP40 handpiece with  $\frac{3}{32}$ ",  $\frac{1}{8}$ " or 3mm collet (interchangeable and sold separately for maximum tool compatibility), variable-speed foot rheostat, handpiece cradle rest, replacement set of carbon brushes and collet chuck wrenches.

### Specifications:

#### Controller

Electrical	120V, 1 Ph, 50/60Hz
Dimensions	3.4"W x 5.9"D x 6.2"H
Net Wt.	5.5 lbs.

#### Handpiece

	PHP35	PHP40
Speed Range	0–35,000rpm	0–40,000rpm
Max. Torque	6.5 N-cm	6.0 N-cm
Dimensions	1" dia. x 5.9"L	1" dia. x 5.5"L
Net Wt.	7 oz.	6 oz.

Description	Collet	Item#	Each
System w/ PHP35	$\frac{3}{32}$ "	510-5115	\$725.00
System w/ PHP40	$\frac{3}{32}$ "	510-5130	725.00



## Marathon Handy 700 Micromotor System

### Brushless design for high torque at any speed!

Ideal for grinding, bright-cutting, texturing, polishing, setting and more.

#### Features:

- Face dial or foot rheostat speed control and auto-cruise function
- Forward/reverse switch for dislodging stuck tools
- Digital display for precise speed and torque settings
- Error-checking/troubleshooting system and overload protection

#### Includes:

- Controller with 2 handpiece receptacles
- Cool-running **brushless** handpiece with lightweight enclosed motor that offers incredibly high torque at any speed, variable-speed foot rheostat
- Detachable handpiece holder and spare fuse

### Specifications:

#### Controller

Electrical	100–120V, 4.0A, 40W, 50/60Hz
Dimensions	5.4"W x 9.1"D x 7"H
Net Wt.	6 lbs.

#### Brushless Handpiece

Max. Torque	7.8 N-cm
Speed Range	0–50,000rpm
Dimensions	1.1" dia. x 6.3"L
Net Wt.	8.4 oz.

CE approved. Backed by a two-year warranty.

Description	Collet	Item#	Each
Handy 700*	$\frac{3}{32}$ "	510-2920	\$695.00

\*Accepts a **second** brush-type handpiece.



**New  
Low  
Price!**

## Mini Mobile Micromotor System

### The truly portable, rechargeable system with 33,000rpm!

Our first and only battery-operated micromotor system. Features a rechargeable NiMH battery that provides up to an impressive 140 minutes of continuous operation on a single charge. Also runs while charging if you need to use it for longer periods of time.

Includes: compact controller with overload protection, high-speed handpiece with  $\frac{3}{32}$ " collet, on/off foot switch, handpiece cradle rest, AC adapter and attractive aluminum carrying case.

Rechargeable NiMH battery pack for true portability!

### Specifications:

#### Controller

Working Time	140 minutes on 1 charge
Charging Time	3 hours
Electrical	100–240V, 50/60Hz
Dimensions	2.9"W x 6.7"D x 1.3"H with 13.8"W x 11.3"D x 3.8"H case
Net Wt.	9.5 oz.

#### Handpiece

Speed Range	0–33,000rpm
Dimensions	1" dia. x 5.6"L
Net Wt.	5.2 oz.

Description	Collet	Item#	Each	Sale
Mini Mobile	$\frac{3}{32}$ "	510-2905	<del>\$375.00</del>	<b>\$330.00</b>



## ECO-Torque 280 Micromotor System

Whether you need a solution for grinding, drilling, sanding, polishing, finishing or bright-cutting, ECO-Torque 280 will get the job done with ease.

Includes compact controller with 110/220V selector switch and forward/reverse switch, lightweight rotary handpiece with  $\frac{3}{32}$ " collet, on/off foot switch, handpiece cradle rest, extra pair of carbon brushes and collet chuck wrenches.

### Specifications:

#### Controller

Electrical	110/220V, 0.5A, 50/60Hz
Dimensions	4.5"W x 5.8"D x 3.8"H
Net Wt.	2.8 lbs.

#### Handpiece

Speed Range	0–35,000rpm
Dimensions	1.1" dia. x 6"L
Net Wt.	7.3 oz.

Description	Collet	Item#	Each	Sale
ECO-Torque 280	$\frac{3}{32}$ "	510-2975	<del>\$499.95</del>	<b>\$159.95</b>

**Save  
20%**





# Precious Metal Reclamation



Two-Station

**BEST BUILT**  
Jewelry Equipment

Heavy Duty  
Polishing Motors



Two-Station with  
Baldor 2-speed

**QUATRO**



Standard Junior

Compact!

## Best-Built Polishing and Dust Collecting Units

For improved dust recovery and workplace cleanliness!

These completely enclosed standalone polishing units provide more efficient dust recovery for increased return and help keep your shop cleaner. Features a two-stage filtration system: tightly woven cotton bag(s) collect large precious metal particles and dust while a reusable secondary filter collects particulate as small as 0.05 micron.

### Features:

- Filters are easy to change
- Convenient shelf holds buffs and compounds
- Shatter-resistant tempered glass access doors—won't scratch or dull like plexiglass
- Cool fluorescent light offers a great view of work in progress
- Choose from two- and one-station models
- Includes one set of installed filters

### Specifications:

	One-Station	Two-Station
Polishing Motor	3/4 HP, single-spindle,	3/4 HP, double-spindle
Suction Motor	1/2 HP, 550 CFM	1/2 HP, 550 CFM
Electrical	110V, 20A, 60 Hz	110V, 20A, 60 Hz
Dimensions	26"W x 22"D x 52"H	37"W x 22"D x 52"H
Ship. Wt.	215 lbs.	240 lbs.

Description	Item#	Each	Sale
Two-Station System	854-1600	<del>\$1,895.00</del>	<b>\$1,795.00</b>
One-Station System	854-1605	<b>1,495.00</b>	

## Quatro SPU Dust Collectors

Capture more precious metal!

These units use progressive filtration systems to capture all precious metal dust, not just a portion of it. Recover more metal for refining and help keep your workplace cleaner and healthier than ever before. Choose from Two-Station and Junior models.

### Features:

- Advanced filtration systems and powerful suction motors for maximum recovery
- Strategically placed inlet locations right below motor spindles for optimal intake
- Office-friendly whisper-quiet operation
- Optional on/off foot pedal for on the fly polishing

The **Two-Station** model is an excellent choice for large shops. Includes a Baldor 2-speed polishing motor. The **Deluxe** has the same features as the **Standard** but comes supplied with a clearview hood on the motor table. The **Standard Junior** is slightly smaller, ideal for tight spaces.

### Specifications:

	Two-Station	Deluxe Junior	Standard Junior
Polishing Motor	Baldor 1/4 HP	Quatro 1/4 HP	Quatro 1/4 HP
Suction Motor	1 HP, 1,200 CFM	1/2 HP, 600 CFM	1/2 HP, 600 CFM
Electrical	120V, 9.2A, 60Hz	120V, 4.6A, 60Hz	120V, 4.6A, 60Hz
Dimensions	40"W x 20"D x 53"H	24"W x 20"D x 50"H	18"W x 19"D x 44"H
Ship. Wt.	227 lbs.	136 lbs.	137 lbs.

Description	Item#	Each	Sale
Two-Station SPU w/ Baldor Motor*, 2 speed	854-2080	<del>\$2,548.00</del>	<b>\$2,165.00</b>
Deluxe Junior SPU w/ Quatro Motor*	854-2183	<del>1,689.00</del>	<b>1,435.65</b>
Standard Junior SPU w/ Quatro Motor*	854-2086	<del>1,495.00</del>	<b>1,270.75</b>
Optional On/Off Foot Pedal	854-2094	<b>95.00</b>	

\*Other motors available - please call our Sales Department for details: 1-800-243-4466.

# Precious Metal Reclamation



2-Port

## Quatro CollectAll Dust Collector

### Powerful yet quiet!

Uses high-speed brushless turbine motor for removing precious metal, solder fumes, rhodium, dust and debris. Runs very quietly, so it's perfect for small shops, malls and other places where noise and available space can pose a problem.

### Features:

- Collection bag, HEPA & odor filter & brushless Hi-Pressure motor
- 3-stage filtration captures all particulates down to 0.3 micron
- Includes 6' of 3" dia. Flex hose and nose clamps
- Backed by a 2 year manufacturer's warranty
- Made in Canada

### Specifications:

Inlets	Two 3" dia. inlets in top
Suction Motor	1½ HP, 600 CFM
Electrical	120V, 9A, 1 Ph, 60Hz
Dimensions	17"W x 14"D x 26"H
Ship. Wt.	100 lbs.

Description	Item#	Each	Sale
CollectAll Dust Collector	<b>854-2184</b>	<b>\$1,865.00</b>	<b>\$1,440.75</b>
Optional On/Off Foot Pedal	<b>854-2094</b>	<b>95.00</b>	

## Quatro Gold Vault Dust Collectors

### Economical and efficient!

Excellent for: engraving shops, repair shops, grinding, polishing, mixing investments. Made in Canada.

### Features:

- Total precious metal collection inside filter, no waste
- Quick & easy access to filter, compact in size
- Includes easily disposable filter bag, collects ALL metals inside the bag
- Includes heavy duty hose
- The **Standard Gold Vault** model runs at a set speed with an on/off switch
- The **Gold Vault with Box Filter** uses a variable-speed dial for gentle to high suction. Includes electrical plug for connection to an optional on/off foot pedal (see below)
- Backed by a 2 year manufacturer's warranty



1-Port

Specifications:	Standard	Gold Vault with Box Filter
Inlet	One 1½" dia. inlet in top	One 1½" dia. inlet in top
Suction Motor	1 HP, 150 CFM	1 HP, 150 CFM
Electrical	120V, 7A, 1 Ph, 60Hz	120V, 7A, 1 Ph, 60Hz
Dimensions	9"W x 9"D x 19"H	9"W x 9"D x 19"H
Ship. Wt.	29 lbs.	28 lbs.

Description	Item#	Each	Sale
Standard Gold Vault	<b>854-1533</b>	<b>\$459.00</b>	<b>\$390.15</b>
Gold Vault with Box Filter, 110V	<b>854-1535</b>	<b>698.00</b>	<b>593.30</b>

## Quatro Basic

With this tiny unit, you don't have to sacrifice air quality or recovery capability even if your office is on the small side. Great for grinding, polishing, engraving and much more. Ideal for tight spaces. High-speed turbine for fast collection and replaceable bag filter.

Includes choice of hand or foot switch and 6' of 1-1/2" diameter hose. Can be used with JoolTool and other miniature finishers with 1-1/2" diameter outlets\*.

### Specifications:

Electrical	120V, 7A, 1 Ph, 60Hz
Dimensions	7"W x 9-3/4"H (11"H to top of inlet) x 16"D
Net Wht.	20 lbs.

Description	Item#	Each	Sale
Quatro Basic + Hand Switch	<b>854-1366</b>	<b>\$399.00</b>	<b>\$339.15</b>
Quatro Basic + Foot Switch	<b>854-1367</b>	<b>399.00</b>	<b>339.15</b>

\* Can be used for 3" hoods and hoses with the optional 1.5" to 3" Adapter #854-1519.



1-Port



1-Port



2-Port



4-Port



4X4-Port

## Quatro Velocity Dust Collectors — A size for every shop!

These professional units collect 99.97% of all compound dust and precious metal particulate down to submicron levels.

### Features:

- Premium power series for universal use
- Excellent for EVERYTHING: Aluminous oxide, sand, quartz, glass beads, gypsum, die-stone, ceramic alloys, acrylics, resins, etc.
- "A-Mile-A-Minute" High Performance Brushless Dust Collection
- Unique sub-micron dust collection filtration down to 0.3 microns
- "Slide & Glide" Rejuvenating Cartridge Filter System
- Brushless, Bagless, and Maintenance Free Industrial Motor
- No brushes or filter bags to change and replace
- Comprehensive Extended Two Year Warranty Protection
- Pre-Filter Collector & Odor Exhaust Filter upgrade features available
- CSA and CE approved
- Made in Canada
- 1-Port and the 2-Port can be shipped UPS

Specifications:	1-Port	2-Port	4-Port	4X4-Port
No. of Stations	1	1-2	2-4	5-8
Inlet Diameter	3"	3"	3"	3"
Suction Motor	1/2 HP, 200 CFM	3/4 HP, 400 CFM	1 HP, 800 CFM	2 HP, 1,600 CFM
Electrical*	120V, 5.3A, 50/60Hz	120V, 6.1A, 50/60Hz	120V, 9.2A, 50/60Hz	120V, 18A, 50/60Hz
Dimensions (W x D x H)	14" x 19.5" x 16"	14" x 25" x 17"	18" x 25.5" x 23"	18" x 34" x 23"
Ship. Wt.	72 lbs.	80 lbs.	131 lbs.	233 lbs.

Description	Item#	Each	Sale
1-Port Dust Collector	<b>854-1383</b>	<b>\$905.00</b>	<b>\$769.25</b>
2-Port Dust Collector	<b>854-1382</b>	<b>1,170.00</b>	<b>994.50</b>
4-Port Dust Collector	<b>854-1380</b>	<b>1,525.00</b>	<b>1,296.25</b>
4X4-Port Dust Collector	<b>854-1381</b>	<b>1,950.00</b>	<b>1,657.50</b>
Optional On/Off Foot Pedal	<b>854-2094</b>	<b>95.00</b>	
Optional On/Off Remote Button	<b>854-1515</b>	<b>46.00</b>	
Optional Silencer	<b>854-1528</b>	<b>88.00</b>	
Optional Odor Filter for 4-Port and 4X4-Port	<b>854-1529</b>	<b>111.00</b>	

\*240V available upon request.



# Cleaning & Finishing

## Best Built Ultrasonic Cleaners

Best in Quality, Built for Durability!

Best Built Ultrasonic Cleaners utilize industrial transducers to create powerful 40KHz ultrasonic wavelengths: short enough to clean the finest details of your jewelry and powerful enough to removed caked-on dirt as well as rouge and other compounds. Industrial strength transducers are more powerful and more durable than the standard wafer transducers found in most jewelry ultrasonics.

All 4 Best Built Ultrasonics have heaters, a 30-minute timer and a stainless steel lid. The 3 largest units feature variable temperature control.

- Industrial transducers for thorough powerful cleaning
- 40KHz of power make these our most powerful ultrasonics
- Stainless steel construction for durability
- Illuminated on/off switches
- German made timers and switches
- Variable temperature control 30°—85°C (86°—185° F.) on 3.5 Quart, 6 Quart, and 10 Quart Models
- 2 Quart model maintains 65° C (150° F)
- 1 year manufacturer's warranty; 2 year warranty on transducers

**BEST BUILT**  
Jewelry Equipment



Cleaning Solution  
See p.19

Model	2 Quart	3.5 Quart	6 Quart	10 Quart
<b>Capacity</b>	1.8 liters 0.48 gallons	3.3 liters 0.87 gallons	6 liters 1.58 gallons	10 liters 2.64 gallons
<b>Power:</b>	60 watts	100 watts	150 watts	200 watts
<b>Frequency</b>	40KHz	40KHz	40KHz	40KHz
<b>Tank Dimensions</b> L x W: Depth:	5.9" x 5.3" 3.9"	9.4" x 5.5" 3.9"	11.4" x 5.9" " 5.9"	11.4" x 9.4" 5.9"
<b>Overall Dimensions</b> L x W: Height:	7" x 6.4" 8.3"	11.7" x 6.4" 9.8"	14.1" x 6.9" 11.9"	15.5" x 10.4" 14.5"
<b>Electrical</b>	110V	110V	110V	110V
<b>Ship. Wt.</b>	7 lbs.	11 lbs.	15 lbs.	20 lbs.

Description	Built-in Drain	Cover	Item#	Each	Sale
2 Quart	No	Yes	<b>851-1000</b>	<del>\$279.00</del>	<b>\$265.00</b>
3.5 Quart	No	Yes	<b>851-1002</b>	<del>399.00</del>	<b>380.00</b>
6 Quart	Yes	Yes	<b>851-1004</b>	<del>699.00</del>	<b>665.00</b>
10 Quart	Yes	Yes	<b>851-1006</b>	<del>999.00</del>	<b>950.00</b>

## Best Built Magnetic Tumblers

Each of these workhorses features a powerful AC motor with direct drive for unique whirling wave action that provides uniform tumbling results, heavy-duty plastic bowl with cover and 60-minute timer with auto-shutoff. All 3 models include the exact amount of 0.5mm diameter stainless steel pins needed for best results.

Model:	Small	Medium	Large
Ring Capacity	1-6	5-8	10-22
Power Output	15W	40W	90W
Operating Speed	0-1650 rpm*	0-1580 rpm*	0-1400 rpm*
Electrical	110V, 0.2A	110V, 1.2A	110V, 1.83A
Watts	15	40	90
<b>Bowl Size:</b>			
(Dia. x Height)	3½" x 2-3¾"	4¾" x 3½"	5½" x 4¾"
Net Wt.	12 lbs.	18 lbs.	22 lbs.

\* Variable speed models only. Fixed speed models operate only at the top speed.

For  
Burnishing  
Compound  
See p.23



Description	Item#	Each	Sale
Small 3.5" Fixed Speed	<b>852-0360</b>	<del>\$199.00</del>	<b>\$180.00</b>
Small 3.5" Variable Speed	<b>852-0364</b>	<del>275.00</del>	<b>245.00</b>
Medium 4¾" Fixed Speed	<b>852-0361</b>	<del>395.00</del>	<b>355.00</b>
Medium 4¾" Variable Speed	<b>852-0365</b>	<del>450.00</del>	<b>405.00</b>
Large 5½" Variable Speed	<b>852-0363</b>	<del>775.00</del>	<b>695.00</b>

# Cleaning



## Speed Brite Ionic Cleaners

Speed Brite units use a revolutionary ionic cleaning process to clean precious metal and stones in less than a minute. Safe for emeralds, opals, pearls, turquoise and other soft stones.

**Mini 100SB** fits on a countertop and is ideal for resale to your customers.

**Standard 200SB** cleans gold and silver in seconds and also softens dirt behind stones.

**Large 309SB** features push-button to agitate solution for faster cleaning.

Each unit comes with a generous supply of Gem Sparkle Concentrate, an environmentally safe cleaning solution formulated to gently remove dirt, grime and tarnish.

### Specifications:

	Capacity	Inside Tank Dimensions	Electrical
Mini 100SB	6 oz.	3 1/2" X 1 3/5"	110V
Standard 200SB	16 oz.	4 1/2" X 2 1/4"	110V
Large 309SB	32 oz.	8 1/2" X 4 3/4"	110V

Description	Electrical	Item#	Each	Sale
Mini 100SB	9V Battery (included)	<b>851-4920</b>	<del>\$50.50</del>	<b>\$49.95</b>
A/C Adapter for Mini		<b>851-4924</b>	<del>12.00</del>	<b>10.80</b>
Standard 200SB	110V	<b>851-4925</b>	<del>94.50</del>	<b>89.95</b>
Large 309SB	110V	<b>851-4933</b>	<del>132.50</del>	<b>126.00</b>

## Gem-Sparkle Liquid Concentrate

Description	Item#	Each
Gem-Sparkle, 4 oz.	<b>851-4937</b>	<b>\$7.95</b>
Gem-Sparkle, 16 oz.	<b>851-4930</b>	<b>9.95</b>
Gem-Sparkle, 32 oz.	<b>851-4931</b>	<b>15.50</b>
Gem-Sparkle, 1 gallon	<b>851-4932</b>	<b>27.50</b>

## Gem-Sparkle Dry Powder

**Free Dry Powder Crystals with Luster Enhancer included with Mini and Standard models.**

Pour contents of both vials into dispensing bottle. Add water and mix.

Description	Item#	Each
Gem-Sparkle Dry Powder without Bottle, 8oz.	<b>851-4938</b>	<b>\$10.50</b>
with Bottle, 8 oz.	<b>851-4939</b>	<b>12.50</b>
with Bottle, 32 oz.	<b>851-4941</b>	<b>16.50</b>
without Bottle, 32 oz.	<b>851-4940</b>	<b>14.50</b>

## Deluxe Junior Steam Cleaner

**Our most popular steam cleaner!**

This compact tabletop unit boasts up to 40% greater effective capacity than similar units, so it provides more steam before needing a water refill. Features a high-limit pressure control switch that regulates heat and pressure automatically. Made of toughest materials to withstand constant use. Easy to install with no plumbing required.

Includes fast-response heating element, foot-controlled solenoid switch, safety relief valve, sight gauge, low-water cutoff with reset switch, steam pressuregauge, lockable blowdown drain valve and a water fill funnel and valve. Uses ordinary tap water. Complies with ASME safety code. UL and CSA approved.

### Specifications:

Capacity	1.5 gallons
Max. Pressure	60-85 PSI
Electrical	120V, 12.5A, 1500W, 60Hz
Dimensions	16 1/2"W x 12"D x 19"H
Ship. Wt.	74 lbs.

Description	Item#	Each
Deluxe Junior Steam Cleaner	<b>853-0059</b>	<b>\$1,295.00</b>
FOB VA	<b>853-0072</b>	<b>1,279.00</b>



## Silver Dragon

**Safe for malls, stores and offices!**

This space-saving unit produces steam on-demand rather than holding it under pressure like boiler-type steamers, so they eliminate the risk of explosion. Perform comparably to much larger machines yet require no boiler permits, so they're welcome in public locations.

Simple to operate: just insert the supplied water feed hose into a bottle of distilled water, step on the foot pedal to feed water into your unit, and watch as water instantly flashes into steam and exits the nozzle.

Features foot switch, durable 20-gauge stainless steel construction and solid-state controls. UL Listed. CE approved.

Note: Requires distilled water. Cannot use tap water. The minerals in tap water will immediately clog the system and void the warranty.

### Specifications:

Cabinet	Stainless Steel
Max. Pressure	90 - 125 PSI
Electrical	115V, 11A, 1300W, 60Hz
Dimensions	9"W x 12"D x 10"H
Ship. Wt.	25 lbs.

Description	Item#	Each
Silver Dragon	<b>853-0042</b>	<b>\$690.00</b>



# Multi-Function Finishing Machines

## MAX 24 Multi-Function Finishing Machine

### Variable-speed unit for wet/dry grinding and polishing!

Mix and match wheels, belts and discs on your MAX 24 machine, and run them wet or dry without any mess or time-consuming tool changes. The MAX 24 can accept up to seven abrasives, including 5" or 6" wheels or a lapping disc or inside ring polisher on the right-hand side. Just position them in the progressive order that suits your grinding and polishing requirements, then proceed from start to finish in much less time.

Features digital control for running abrasive products at speeds conducive to maximum performance and life, durable stainless steel cabinet with front-entry design for easy belt maintenance, 4-gallon recirculating water pump, separate water supply hoses and valves for controlling water flow to each abrasive, clear-view spray shield and four lights for easily viewing work in progress.

### Specifications:

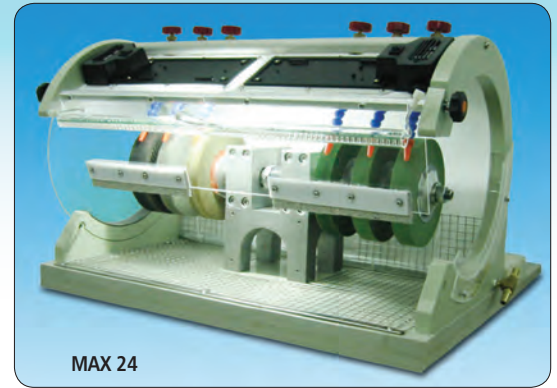
Electrical	110V, 60Hz	Machine Arbor	1" dia x 22" long
Motor	1/2 HP	Net/Ship. Wt.	132/224 lbs.
Speed Range	500-3,600rpm		
Dimensions	25 1/2"W x 25 1/2"D x 20"H		

## MAX 24 Abrasive Wheels

### For grinding, deburring and polishing!

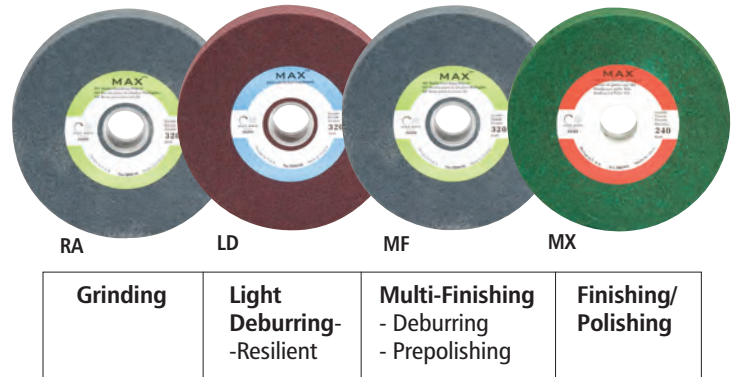
Measure 6" dia. x 1" thick x 1" AH. Recommended operating conditions: 1,200–1,800rpm with medium water flow for RA, LD and MF wheels; 1,200–1,500rpm with light water flow for MX wheels.

Description	Grit	Item#	1-2	3+
RA Wheel	240	845-3060	\$62.90	\$59.76
LD Wheel	320	845-3053	31.60	30.02
MF Wheel	320	845-3050	31.60	30.02
	600	845-3051	31.60	30.02
	1000	845-3052	31.60	30.02
MX Wheel	240	845-3055	41.95	39.85
	600	845-3056	41.95	39.85
	1500	845-3057	41.95	39.85
	3000	845-3058	41.95	39.85



Description	Item#	Each	Sale
MAX 24	854-0010	\$2,565.00	\$2,450.00

All Wheels Measure 6" x 1" x 1" AH



## MINI MAX Multi-Function Finishing Machine

### Increase your precious-metal reclamation!

MINI MAX is ideal for a wide variety of jewelry applications such as grinding and polishing. Mix and match wheels, belts and discs on your MINI MAX, and run them wet or dry without any mess or time-consuming tool changes.

### Features:

- Multi-function design for easy progressive finishing
- Analog control dial for running at speeds conducive to maximum performance
- Recirculating water pump for wet use when desired
- Speed range: 500–3,600rpm
- Can accept up to six 4" wheels.

### Specifications:

Electrical	110V, 60Hz	Dimensions	25"W x 10"D x 11"H
Motor	1/2 HP	Net/Ship. Wt.	25/31 lbs.
Description	Item#	Each	
MINI MAX	854-0119	\$1,050.00	

## MINI MAX Abrasive Wheels – For grinding and polishing!

Same material as Max 24 wheels (see above), but measure 4" dia. x 1" thick x 3/8" AH. Recommended operating conditions: 1,200–1,800rpm with medium water flow for RA wheels; 1,200–1,500rpm with light water flow for MX wheels.

Description	Grit	Item#	Each
RA Wheel	240	845-3075	\$29.50
MX Wheel	240	845-3071	21.50
	600	845-3072	21.50
	1500	845-3073	21.50
	3000	845-3074	21.50



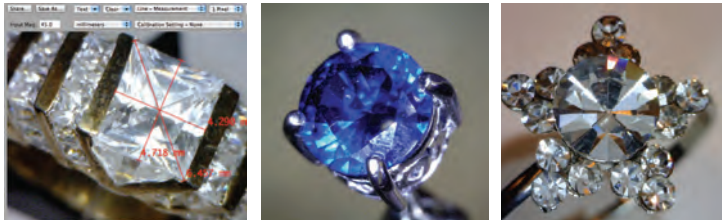
All Wheels Measure 4" x 3/8" AH





# Inspection & Testing

## Dino-Lite Microscopes



Images taken with Dino-Lite

## Dino-Lite Handheld Microscopes

**Perfect for assembly, repair, inspection and documentation!**

Affordable, compact digital microscopes for a wide range of assembly, repair, inspection and documentation applications.

### Features:

- Digital camera with powerful magnification capabilities and remarkable color resolution
- DinoCapture imaging software for capturing both pictures and videos of workpieces
- Micro-Touch trigger mechanism for shooting without a mouse
- Eight ultra-bright LEDs for strong yet clean lighting
- Lightweight design for portability

Includes USB 2.0 cable for fast data transfer to your PC or Mac.

All **413** models include measuring software that allows you to input a magnification value from the microscope zoom control and then measure length, angle and circumference of an object.

Model **AD4113TL** boasts enhanced working distance and removable nose cone, which can be swapped with the optional 90° view adapter to look into tight areas with ease. Also includes new locking magnification dial.

Backed by a one-year warranty. CE approved.

### Specifications:

Resolution	1.3 megapixel (1280 x 1024)
Illumination	8 white LEDs
Frame Rate	Up to 30fps
File Format	JPEG, BMP, AVI
Dimensions	1 1/4" dia. x 4"L

**Free Desk Stand with Purchase! 810-0091**

Description	Power	Measuring Software*	Polarizing Filter**	Enhanced Working Distance***	Item#	Each
AM411T	10–50X, 200X	No	No	No	<b>810-0086</b>	<b>\$329.00</b>
AM413T	10–50X, 200X	Yes	No	No	<b>810-0094</b>	<b>\$399.00</b>
AD4113TL	10X, 20–92X	Yes	No	Yes	<b>810-0092</b>	<b>\$489.00</b>
AM413ZTS	10–220X	Yes	Yes	No	<b>810-0099</b>	<b>\$499.00</b>

\*For point-to-point, curvilinear and angular measurements with accuracy up to 0.001".

\*\*For adjustable glare reduction, useful in many close-up applications.

\*\*\*For up to 4" more distance between lens and subject.

## Dino-Lite Handheld Video Microscope

**Connects to a TV or monitor for easy group training!**

This compact handheld video microscope connects to any TV or monitor with composite video input (RCA-type, coded yellow), making it perfect for training, inspection, assembly and more.



### Features:

- Powerful zoom capability for viewing the tiniest details
- CMOS (complementary metal oxide semiconductor) enhanced-color image sensor for excellent image quality
- Eight ultra-bright LEDs for strong yet clean lighting and a lightweight design for good portability
- Includes 6' composite video cable, AC adapter, cradle stand and storage bag
- Backed by a one-year warranty, CE approved

### Specifications:

Magnification	10–50X, 200X
Resolution	540 x 496
Illumination	8 white LEDs
Frame Rate	Up to 30fps
Dimensions	1 1/4" dia. x 4"L

**Free Desk Stand with Purchase! 810-0091**

Description	Item#	Each
AM412N	<b>810-0097</b>	<b>\$249.00</b>

## Dino-Lite Stands



The **Gooseneck Stand** has an adjustable 10" neck for easy positioning and weighted base for stability. The **Desk Stand** features weighted design for stability, 360° rotating slide assembly, microscope holster with ball-and-socket for an additional 45° of lateral movement and specimen holder for securing even tiny objects.

Description	Item#	Each
Gooseneck Stand	<b>810-0090</b>	<b>\$49.00</b>
Desk Stand	<b>810-0091</b>	<b>\$99.00</b>



## Dino-Lite Light Box Adapter

High-impact plastic adapter with adjustable holster for mounting your Dino-Lite on your MEDALight light box (p.14).

Description	Item#	Each
Light Box Adapter	<b>810-0096</b>	<b>\$24.95</b>

# Imaging Solutions



## MEDALight® Multi-Light Light Box

**Best choice for photographing colored gemstones!**

This economical light box offers good control and flexibility at a very fair price. Features 9" x 12" imaging platform, three individually controllable on/off lights (5600°K diffused fluorescent light, 5600°K 12-LED accent light and 2700°K nondiffused fluorescent light) and infinity curve from bottom platform to rear panel for seamless background transition. Includes removable front door, universal camera bracket, power adapter, six colored background papers and two black side masks. Electrical: 110–220V, 60Hz. Measures 14½"W x 13"D x 12"H. Camera not included.

Description	Item#	Each	Sale
Multi-Light	817-0825	<del>\$495.00</del>	<b>\$420.00</b>



## MEDALight® Medium Light Box

This mid-range unit offers great control and flexibility at a good price. Features 9" x 12" imaging platform, three individually controllable, dimmable 5000°K fluorescent lights (front, rear and bottom) and infinity curve from bottom platform to rear panel for seamless background transition. Includes removable front door, universal camera bracket, power adapter, six colored background papers and two black side masks. Electrical: 120V, 60Hz. Measures 14½"W x 13"D x 12"H. Camera not included.

Description	Item#	Each	Sale
Medium	817-0839	<del>\$650.00</del>	<b>\$550.00</b>
Optional Sparkling Light	817-0872	95.00	<b>For Diamonds</b>



## MEDALight® Large Light Box

A full-size light box for shooting a variety of jewelry items and compositions. Features 11" x 16" imaging platform, five individually controllable, dimmable 5000°K fluorescent lights (front, rear, sides and bottom) and infinity curve from bottom platform to rear panel for seamless background transition. Includes removable front door, universal camera bracket, power adapter, six colored background papers and two black side masks. Electrical: 120V, 60Hz. Measures 19"W x 15"D x 14"H. Camera not included.

Description	Item#	Each	Sale
Large	817-0842	<del>\$895.00</del>	<b>\$795.00</b>
Optional Sparkling Light	817-0872	95.00	<b>For Diamonds</b>

MEDALight Light Box Comparison	Multi-Light	Medium	Large
Imaging Platform	9" x 12"	9" x 12"	11" x 16"
Number of Lights	3	3	5
Color Temperature	5600°/2700°K	5000°K	5000°K
Electrical	110–220V, 60Hz	120V, 60Hz	120V, 60Hz
Dimensions	14½"W x 13"D x 12"H	14½"W x 13"D x 12"H	19"W x 15"D x 14"H



## MEDALight® Mini Studio

**For large jewelry compositions!**

This mini photo studio provides a large 5000°K lighting environment for shooting jewelry. With its compact size and multiple adjustable light sources, it gives you the flexibility to work with a wide range of compositions — without taking up too much space (30" x 30" work area required).

Features translucent diffusion shooting table with 17" x 23" imaging area, durable shooting table frame, innovative 48/32W bottom/rear lighting unit, 48W large fluorescent light panel and two 32W small fluorescent light panels with barn-door reflectors. Includes removable diffusion material for hard, soft or mixed lighting, top light stand with boom arm, two swing-arm light mounts and mounting hardware. Electrical: 120V, 60Hz.

Description	Item#	Each	Sale
Mini Studio	817-0843	<del>\$1,250.00</del>	<b>\$995.00</b>
Optional Sparkling Light	817-0874	145.00	<b>For Diamonds</b>
Optional Roof Diffuser	817-0876	49.95	



## LiteRoom™ Kit

**Take Reflection — free photos!**

The easy-to-use lighting solution for shooting jewelry and other small items. Produces crisp, consistent images. Includes 24"W x 32"D x 17"H tent with 22" x 30" imaging area, two light heads, two 250W tungsten lightbulbs, two light stands, handy tent carrying bag and more — all you need is a camera and tripod. Very easy to set up and break down.

Features a vestibule interior with Velcro tabs for attaching a variety of sweep backdrops. Best of all, the tent is bottomless, so you can move it without disturbing your composition. The professional-grade lights with stands provide precise, adjustable lighting. Made to last with replaceable tungsten lightbulbs for years of trouble-free use. Electrical: 110V.

Description	Item#	Each	Sale
LiteRoom Kit	817-0858	<del>\$395.00</del>	<b>\$345.00</b>

# Inspection & Testing

**NEW!**



## Auracle Gold Tester Everyone Who Works With Gold Will Want One!

The Auracle Gold Tester is a breakthrough in gold testing due to its speed, accuracy and simplicity. Unlike other testers whose accuracy is dependent upon complicated testing instructions, preparation procedures, cleaning or refrigeration, the Auracle indicates karat value within a second by simply touching the test object with the pen.

Uses a non-toxic, non-staining solution. There are no messy solutions or acids that can discolor your clothes or hands or worse, damage the object you're testing.

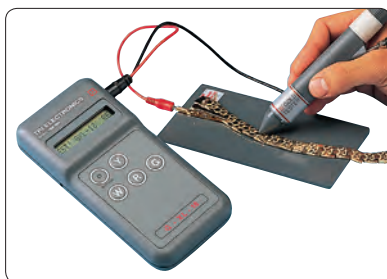
The Auracle is lightweight and portable to any venue. It tests all types of gold from 6K to 24K and platinum. Inexpensive to maintain, the replaceable pen lasts up to six months of testing. Requires one 9V battery (included).

Description	Item #	Each
Auracle Gold Tester	<b>817-1040</b>	<b>\$429.00</b>
Replacement Pen	<b>817-1041</b>	<b>24.95</b>
AC Adapter, for 110V	<b>817-1042</b>	<b>19.95</b>

## Gold Testers G-XL-18 and G-XL-24 PRO

### Test gold with assurance in the shop or on buying trips

The **G-XL-18** takes four seconds to test from 6 up to 18K yellow, white, red or green gold. Indicates "Not Gold" if the metal is plated or gold-filled and "Platinum" if pure platinum.



The **G-XL-24 PRO** tests from 6 up to 24K yellow, white, red or green gold. Each unit initiates an electrochemical reaction with the test piece to measure karat content within a half-karat. Displays a reading only to the nearest karat. Runs on two 9V batteries (included).

Description	Item#	Each
G-XL-18	<b>817-1022</b>	<b>\$496.00</b>
G-XL-24 PRO	<b>817-1026</b>	<b>509.00</b>

Replacement sensor pens available.



## GemOro® UltraTester™ II

Provides fast one-touch testing with lights and beeps for diamond, moissanite and white sapphire indication. Features superior surface mount technology, metal warning tone, illuminator light, auto-sleep and ergonomic design with rubberized finish. Includes rechargeable nicad battery, AC adapter/charger, pouch and case. Measures 6 1/2"L x 1 5/8"W x 3/4"D. Backed by lifetime limited manufacturer's warranty.

Description	Item#	Each	Sale
UltraTester II	<b>817-1016</b>	<del>\$225.00</del>	<b>\$210.00</b>
Ultra Dock Recharging Station	<b>817-1017</b>	<b>24.95</b>	



Includes zippered carrying case and head strap.

## Eschenbach MaxDetail

This headset magnifier offers high-end features at an affordable price. Galilean design provides wide field of view (20°) and independently adjustable magnification and focus for each lens, ensuring excellent clarity for each eye\*. Objective lenses compensate for ±3-diopter spherical correction or allow adjustment for close-up activities.

Lightweight PXM® optics, flexible plastic temples and smooth molded bridge allow comfortable extended wear. Frosted objective housing eliminates distracting reflections.

### Specifications:

Magnification	up to 2X
Lens Size	32mm
Features	Can be adjusted (±3 diopter) for spherical correction
Working Distance	16"
Field of View	20°
Weight	1.7 ounces or 49 grams

\* To adjust each lens: Close or cover one eye and turn the adjustment wheel for the open eye until your work area is in focus. Do the same for the other eye. Both eyes have perfect focus eliminating eye strain.

Description	Item #	Each
Eschenbach MaxDetail	<b>272-3280</b>	<b>\$95.00</b>



## 10X Triplet Loupe with LED Ring Light

Our highest-quality lighted loupe. Six LEDs covered by a diffusion filter circle the lens and allow perfect shadow-free viewing of gemstones, jewelry, stamps, and anything you need to see with 10x magnification. Even in low-light conditions, you'll always be able to see the details.

### Features:

- 10X Triplet magnification
- 20.5mm diameter lens
- 6 LEDs covered by diffusion filter for bright uniform lighting with no shadows
- High-quality triplet lens
- Lens is achromatic (color-corrected) and aplanatic (distortion-free)
- Operates on 3 LR926 batteries, included
- Includes carrying case

Description	Item#	1-2	3+
10X Triplet Loupe with LED Ring Light	<b>272-4075</b>	<b>\$29.95</b>	<b>\$26.96</b>



# Ultrasonic Burnishers/Porosity Removers

## SonoCraft Ultrasonic Polishers — Gesswein brings ultrasonic polishing to jewelers!

Traditionally used to finish metal molds & dies, ultrasonic polishing enables precision finishing in the tiniest areas! Our new SonoCraft Polishers use high-frequency low-amplitude ultrasonic vibration to reach into the tiniest places to clean, burnish, even engrave — leaving an extremely bright burnished surface. These are reciprocating (hammer) handpieces with an ultrasonic stroke length so tiny and vibration so fast that it's almost invisible so you maintain full control over your work for exceptional accuracy. These are critical factors when working in small areas. There is very little vibration transmitted through the handpiece so it can be used comfortably for long periods of time. Made in Japan.

### Why Do You Need SonoCraft?

- SonoCraft brightly polishes inside the tiniest areas and most intricate designs (areas so small they are often left raw or sandblasted) to improve the quality of your finished jewelry.
- SonoCraft replaces abrasives which can mar or blur delicate or intricate designs because it quickly burnishes down burs and rough surfaces and leaves a smooth shiny finish.
- SonoCraft cleans up and burnishes RP (rapid prototyping) castings, leaving a uniform smooth surface.
- SonoCraft removes excess material after laser filling porosity holes, and burnishes the material deep into the hole so it doesn't open up later.
- SonoCraft polishes in and around beads to achieve the highest possible shine on pave and micro pave settings.
- SonoCraft Model ST-60 does light engraving jobs and has enough power to burnish beads onto stones.

**Burnishes  
Out Rapid  
Prototyping  
Marks  
Quickly!**



For gold, silver and soft metals

### SONOCRAFT III Model ST-50

The powerful SonoCraft III ST-50 has a full 30 watts of power making it ideal for working on gold, silver and softer metals. Features an adjustable output knob for increasing vibration strength for jobs that need more power such as burnishing castings or under cathedral settings, and for decreasing vibration strength for delicate jobs such as burnishing tiny settings or cleaning up rails. Utilizes highly polished carbide tool tip (sold separately below).

#### Specifications:

Works on  
Max. Power Output  
Operating Frequency  
Power Consumption  
Output Adjustment  
Handpiece Weight  
Electrical  
Power Pack Dimensions  
Ship. Wt.

#### ST-50

Gold, Silver and other soft metals  
30 Watts  
24kHz  
120VA  
Continuously variable  
7 oz.  
110V, 50/60Hz  
6<sup>7</sup>/<sub>8</sub>" W x 6<sup>7</sup>/<sub>8</sub>" D x 3<sup>3</sup>/<sub>16</sub>" H  
5.4 lbs.



For gold, silver, platinum, and hard metals

### SONOCRAFT Model ST-60

With 40 watts of power, SonoCraft ST-60 works on gold, silver, platinum and other hard metals. Burnishes out RP marks leaving a smooth shiny surface. Cleans and burnishes even faster than the ST-50 but also does intricate engraving and bead tightening. 4 Ultrasonic Modes make this a very versatile system, all controlled by the foot switch:

**Single Hit Mode:** Tightens beads on to stones with minimal or no touchup needed.

**Intermittent Mode (Slow):** Slowly repeating impacts for light engraving.

**Intermittent Mode (Rapid):** Rapidly repeating impacts for engraving.

**Continuous Mode:** Constant fast impact for burnishing and polishing.

#### ST-60

Gold, Silver, Platinum and other hard metals  
40 Watts  
25kHz  
120VA  
Continuously variable  
4.5 oz. (without cord)  
110V or 220V, 50/60Hz  
5<sup>3</sup>/<sub>4</sub>" W x 7<sup>1</sup>/<sub>4</sub>" D x 5" H  
6.25 lbs.

Both units includes power pack, lightweight handpiece, on/off foot switch, wrench and instructions. ST-50 includes Burnishing Tool Tip only. ST-60 includes all 5 tips.

Description	Item#	Each
SonoCraft III Ultrasonic ST-50, 110V	<b>510-0880</b>	<b>\$2,495.00</b>
SonoCraft Ultrasonic ST-60, 110V*	<b>510-0885</b>	<b>4,995.00</b>
Tip, V-shape Chisel, 60 Deg	<b>510-0887</b>	<b>150.00</b>
90 Deg	<b>510-0888</b>	<b>150.00</b>
Tip, Flat Graver	<b>510-0889</b>	<b>110.00</b>
Tip, Round Graver	<b>510-0890</b>	<b>155.00</b>
Tip, Burnishing Tool	<b>510-0891</b>	<b>150.00</b>

\*ST-60 is also available in 220V.

# Plating



## PEPE Neon Digital Pen Plating System

Features precise voltage regulator and clear digital readout. Allows you to select the exact voltage required from 1.2–17V for perfect results. Includes compact rectifier base with recesses for holding two pens and three plating solutions, plating pen with three felt tips, alligator clip with lead wire, three plating jars with twist-off lids for avoiding spills and wire stand. Plating solutions and concentrates sold separately. Electrical: 110/220V. Measures 4½" wide. Made in Europe.

Description	Item#	Each
Neon Digital Pen Plating System	212-0721	\$199.00

## PEPE Neon Digital Rectifiers

### For plating and stripping!

Ideal for a variety of plating and stripping jobs. Choose from 10A and 25A models. Use the 10A for plating small and large single items, or use the 25A for plating several items at once and stripping small items.

#### Features:

- Input voltage selector switch for 115/230V operation
- Voltage regulator/indicator and amperage regulator/indicator
- Self-restoring internal short-circuit protection
- Compact, lightweight design

#### Specifications:

Voltage Range	1.20 — 12.00V in 0.01V increments
Amperage Range	0.00 — 10.00A or 0.00 — 25.00A in 0.01A increments
Electrical	115V, 5A, 60Hz or 230V, 2.5A, 50Hz
Dimensions	4¼"W x 8¾"D x 6½"H

Description	Item#	Each
10A Neon Rectifier	212-0953	\$325.00
25A Neon Rectifier	212-0954	345.00



## Umicore RHODUNA® TD

### The world's brightest and whitest rhodium!

Rhodium suppliers all SAY their rhodium is the whitest and brightest, but only Umicore can really PROVE it. Measured by spectrophotometer, only Umicore RHODUNA TD is as bright as pure rhodium (89.5–90 on the lightness scale), while other brands fall short (86–90). Test results were independently verified by CIE-Lab. There is simply no whiter rhodium available on the market. In addition, Umicore RHODUNA TD also plates thicker (0.5µm) than other brands (0.3µm)—almost twice as thick for roughly twice the wear resistance.

Umicore RHODUNA TD features sulfate-based formula with high deposition capacity, good plating speed and exceptional throwing power. Packaged in shrink-sealed plastic bottles for protection and security. Choose from concentrated solution for rack and barrel plating or pen plating straight out of the bottle, convenient premixed solution for bath plating and replenisher for restoring depleted baths.



**Black concentrated solution now available, as well — see below.**

#### Features:

- The same brightness as pure rhodium for maximum appeal
- Almost twice the plating thickness of other brands
- High deposition capacity
- Good plating speed
- Exceptional throwing power

#### Specifications:

Plating Speed	0.06µm/min.
Max. Coating Thickness	0.5µm
Throwing Power	77%
Anode Type	Platinum-clad
Operating Temperature	68–149°F (20–65°C)
Optimal Plating Temperature	105°F (40°C)
Voltage Range	2–3V

**Great Low Prices!**

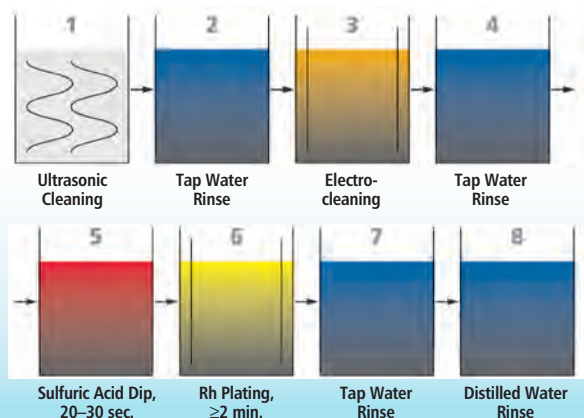
Description	Rh Content	Item#	1-2	3+
White Concentrated Solution*	2g	210-1031	\$177.30	\$164.89
White Premixed Solution, 1 pt.*	1g	210-1033	95.17	88.51
White Concentrated Replenisher	1g	210-1032	95.17	88.51
White Concentrated Replenisher*	5g	210-1034	411.64	—
Black Ruthenium Concentrated Solution*	2g	210-1036	61.35	—

Prices change with current market value. Quantity discounts available.

\*UPS or FedEx Ground Shipping Only.

## Rhodium Plating Guidelines for Best Results

- Always turn on the current before putting parts into the bath.
- Strike plate difficult parts with increased current density for 10–30 sec. at 4V max.
- Remove hydrogen bubbles that adhere to plating surfaces by tapping on the rack.
- Provide sufficient agitation of 5–10cm/sec. is important for best results.



# Rapid Prototyping

## envisionTEC.



### envisionTEC Aureus RP Machine

High-resolution desktop system for rapid prototyping and direct manufacturing. Based on the principle of photopolymerization, Aureus creates 3-D resin models with the finest CAM finish possible today (versus Drop On Demand 3-D printers). Since the models are built, material is preserved and build time is fast—15 models can be produced on the Aureus in the time it takes a 3-D printer to make just five.

#### Features:

- Easy handling through preadjusted material modules
- Constant build speed (material dependent)
- Minimal moving parts and consumable components allow easy servicing by the user
- Clean and simple post-processing due to near 100% photo cure during build
- Models suitable for direct manufacturing through rapid casting
- Chemically safe fully cured models
- Low acquisition cost

Using an Ethernet interface, Aureus can be connected directly to a PC workstation or integrated into a network. Also has an embedded PC, which allows it to work independently from the preprocessing workstation. Includes a software suite for easy monitoring from any PC on the network and fast importing of STL data files.

#### Specifications:

Build Envelope	60 x 45 X 100mm ( $\pm 2$ mm)
Build Speed	3–7mm/hour at 35 $\mu$ m Z-voxel thickness (material dependent)
Voxel Size	43 $\mu$ m (a "voxel" is a volumetric pixel)
Z-Voxel Thickness	25–35 $\mu$ m (adjusted by each material module)
Resolution SXGA+	1400 x 1050px
Dimensions	21"L x 17"W x 31"H

#### Package Includes:

- Software
- Training & Installation (Continental USA)
- Post Curing System Light Box (see below)
- Freight Door to Door (Continental USA)
- 1/2KG Resin of Choice

Description	Item#	Each
Aureus RP Machine Package, 110V	<b>262-0110</b>	<b>\$48,900.00</b>

**Call: 1-800-544-2043 ext. #280 for more details/info.**

### envisionTEC® Post Curing System

A light polymerization system for curing EnvisionTEC model materials after removal from the Aureus RP Machine. Consists of curing chamber with UV lamp that emits intense light radiation. Ensures optimal material hardening before molding or investing.



Included with machine

### envisionTEC® Model Materials

Materials for producing models with desired characteristics for different styles of jewelry. All are liquids that are cured in the Aureus machine by photopolymerization. Because the Aureus process is additive, there is no wasted material.

Type	Use	Features	Applications
PIC100	Direct casting with R&R Plasticast investment	Photo-cured resin for finest details without sacrificing toughness or finish.	Production-capacity direct investment casting of fine jewelry parts.
WIC100	Direct casting with regular gypsum investment	Photo-cured hybrid resin with nanowax for clean burnout with finest details. Nanowax burns off first, allowing resin to burn off without excessive expansion or pressure from degassing.	Direct investment casting of your detailed master jewelry patterns.
Photosilver	Direct Rubber Molding	High definition ceramic-filled photopolymer produces the finest details.	Can be molded directly from the machine for vulcanized or RTV molds.

Description	Color	Shelf Life	Item#	Each
PIC100, 1kg	Orange	1 yr.	<b>262-0114</b>	<b>\$395.00</b>
WIC100, 1kg	Green	6 mos.	<b>262-0115</b>	<b>395.00</b>
Photosilver Resin, 1kg	Gray	6 mos.	<b>262-0127</b>	<b>450.00</b>
EC500 Resin, 1kg	White	6 mos.	<b>262-0120</b>	<b>489.00</b>

**"...I have worked with and have experience in ALL machines...milling machines, Roland, Solidscape, Perfactory. I gotta tell you honestly...I love my [Aureus] desktop. I would not trade it for anything else."**

**— Hien Nguyen, Owner  
Trademark Jewellery**



# Rolling Mills



Durston manufactured its first rolling mill in 1961 and is now recognized as the foremost manufacturer of mills in the world. Durston mills are renowned worldwide for their outstanding quality and reliability.

Manual mills feature cast-iron construction for excellent toughness, fine steel rollers, maintenance-free ball bearings and an easy-to-read calibration dial. Roll smooth metal free of virtually all distortion. Optional stands available (p.19) to save workspace. Made in the UK.

**Buy Now, Prices Increase May 1st!**



## Durston F70 Flat Mill

Rolls sheet and square wire.

### Specifications:

Gear Ratio	Direct drive
Roller Size	70 x 35mm (W x dia.)
Sheet Capacity	70 x 4mm (W x thick)
Wire Capacity	5–1mm square (5 grooves)
Dimensions	9"W x 5 1/2"D x 8"H (w/o handle)
Net Wt.	26 lbs.

Description	Item#	Each
F70	<b>855-2016</b>	<b>\$585.00</b>



## Durston C80 Combo Mill

Rolls sheet, square wire and half-round wire.

### Specifications:

Gear Ratio	Direct drive
Roller Size	80 x 45mm (W x dia.)
Sheet Capacity	60 x 5.5mm (W x thick)
Wire Capacity	6.5–1mm square (4 grooves); 4–1.5mm 1/2-round (4 grooves)
Dimensions	10" x 4 1/2" x 10" (w/o handle)
Net Wt.	33 lbs.

Description	Item#	Each
C80	<b>855-2000</b>	<b>\$650.00</b>



## Durston C100RE Combo Mill

Rolls sheet, square wire and half-round wire.

### Specifications:

Gear Ratio	4:1
Roller Size	100 x 50mm (W x dia.)
Sheet Capacity	70 x 6mm (W x thick)
Wire Capacity	7–1mm square (9 grooves); 4–1.5mm 1/2-round (4 grooves)
Dimensions	14"W x 8"D x 14"H (w/o handle)
Net Wt.	64 lbs.

Description	Item#	Each
C100RE	<b>855-2003</b>	<b>\$995.00</b>
C100R without 1/2 round rolls	<b>855-2002</b>	<b>760.00</b>



## Durston F100RE Flat Mill

Rolls sheet and half-round wire.

### Specifications:

Gear Ratio	4:1
Roller Size	100 x 50mm (W x dia.)
Sheet Capacity	100 x 6mm (W x thick)
Wire Capacity	4–1.5mm 1/2-round (4 grooves)
Dimensions	14"W x 8"D x 13"H (w/o handle)
Net Wt.	64 lbs.

Description	Item#	Each
F100RE	<b>855-2017</b>	<b>\$960.00</b>



## Durston C130R Combo Mill

Rolls sheet and square wire.

### Specifications:

Gear Ratio	5:1
Roller Size	130 x 60mm (W x dia.)
Sheet Capacity	80 x 7mm (W x thick)
Wire Capacity	8–1mm square (11 grooves)
Dimensions	16"W x 7"D x 14"H (w/o handle)
Net Wt.	95 lbs.

Description	Item#	Each
C130R	<b>855-2006</b>	<b>\$880.00</b>
C130RE with 1/2 round rolls	<b>855-2005</b>	<b>1,195.00</b>



## Durston C130DBL Combo Mill

Rolls sheet, square wire and half-round wire.

### Specifications:

Gear Ratio	7:1 for sheet; 3.5:1 for wire
Roller Size	130 x 60mm (W x dia.)
Sheet Capacity	130 x 7mm (W x thick)
Wire Capacity	10–1mm square (19 grooves); 4–1.5mm 1/2-round (4 grooves)
Dimensions	15"W x 8"D x 23"H (w/o handle)
Net Wt.	154 lbs.

Description	Item#	Each
C130DBL	<b>855-2011</b>	<b>\$2,050.00</b>



## Durston F130RE Flat Mill

Rolls sheet and half-round wire.

### Specifications:

Gear Ratio	5:1
Roller Size	130 x 60mm (W x dia.)
Sheet Capacity	130 x 7mm (W x thick)
Wire Capacity	4–1.5mm 1/2-round (4 grooves)
Dimensions	16"W x 9"D x 14"H (w/o handle)
Net Wt.	101 lbs.

Description	Item#	Each
F130RE	<b>855-2018</b>	<b>\$1,165.00</b>

**Flat and Power Rolling Mills available at [gesswein.com](http://gesswein.com).**

# Rolling Mill Stands/Bench Tools



## Durston Mill Stands

Choose from pedestal and cabinet types. **Pedestal** holds all manual mills except C130DBL. Measures 12"W x 14"D x 35½"H. Weighs 22 lbs. **Cabinet** holds all available manual mills. Measures 14"W x 14"D x 35½"H. Weighs 35 lbs.

Description	Item#	Each
Pedestal	<b>855-2007</b>	<b>\$260.00</b>
Cabinet	<b>855-2010</b>	<b>\$315.00</b>



## Foredom® SR Flex Shaft Kit

### All-inclusive kit for great savings!

Contains everything you need to get to work with a significant savings. Includes: 1/6 HP SR motor with 39" shaft/sheath, #30 handpiece for 0"–5/32" shank tools, FCT variable-speed foot rheostat, full 54-piece accessory kit (assortment of Trizact bands, Scotch-Brite EXL wheels, Metal Master wheels and rods, CW wheels and Platinum Blue and White polishing compounds), rotating bur holder and flex shaft grease. Speed range: 0–18,000rpm. Electrical: 110V, 50/60Hz (220V available).

Description	Item#	Each
SR 2220 Kit with #20 Quick-Change Handpiece	<b>850-0493</b>	<b>\$225.00</b>
SR 2230 Kit with #30 Handpiece	<b>850-0495</b>	<b>215.00</b>



Filter Hood with Bench Motor

## Foredom® Filter Hood & Bench Motor Kit

The compact portable **filter hood** collects fine particles created by light grinding and polishing. Offers strong suction for collecting hazardous dust and precious metal. Works with the Foredom Bench Motor as well as flex shaft and micromotor systems. Includes three replaceable filters (each measures 5 13/16" x 5 7/8" x 3/9" thick). Backed by a one-year warranty. CE approved.

The **Foredom BL Bench Lathe** has a high torque, permanent magnet motor that is extremely quiet and smooth running. Cast iron base has mounting holes and suction cup feet for a secure hold on the work surface. Double Spindle.

**Specifications:** 1/6 horsepower, high torque motor, 115 Volt, Speed Range: 500-7,000 rpm, 125 Watts (continuous rating), Motor shaft diameter: 5/16", Height: 5-1/8", Width: 13" between spindles, Weight: 7.5 lbs, CSA Certified, CE rated (230 volt model only), One Year Warranty. Includes the BL Bench Lathe with A-TM-5 and A-TM-6 Tapered Spindles, A-CHA-5 Collet Holder with 3/32", 1/8", and 1/4" collets, A-WM-6 Wheel Mandrel.

Also available in a money-saving kit! Kit includes the Foredom Bench Motor and Filter Hood.

Description	Item#	Each	Sale
Filter Hood & Bench Motor Kit	<b>850-0642</b>	<del>\$450.00</del>	<b>\$425.00</b>
Bench Motor Only	<b>850-0619</b>	<b>199.50</b>	
Filter Hood Only	<b>850-0640</b>	<del>275.00</del>	<b>250.00</b>
Replacement Filter, 5 pack	<b>850-0641</b>	<b>4.95</b>	



## Gesswein® Ultrasonic Cleaning Solution

Cleans without using harsh chemicals that can damage your ultrasonic tank. Contains no phosphates, which thicken with use and shorten solution life. Gives you a long-lasting supply for your money at 40:1 concentration. Won't irritate eyes or nose. Complies with water treatment regulations for direct disposal into sewage. Does not contain ammonia. Meets OSHA standards.

Description	Yield at 40:1	Item#	1–5	6+
1 pt. Bottle	5 gals.	<b>851-5303</b>	<b>\$15.60</b>	<b>\$14.04</b>
1 qt. Bottle	10 gals.	<b>851-5300</b>	<b>24.80</b>	<b>19.84</b>



## Supra Galvex Ultrasonic Cleaning Solution

### The most effective jewelry cleaner you'll ever use!

Supra Galvex Swiss Formula allows fast, thorough cleaning of precious metals, brass, stainless steel, titanium, zinc and more. This nonoxidizing polishing compound remover is free of complexing agents (EDTA), silicates, phosphates and alkaline hydroxides. Imported from Switzerland. Concentrated: use 50:1 in tap water, 100:1 in distilled or deionized water. Large size containers available.

Description	Yield at 100:1	Item#	1–5	6+
1 pt. Bottle	12.5 gals.	<b>851-5301</b>	<b>\$19.95</b>	<b>\$17.78</b>
1 qt. Bottle	25 gals.	<b>851-5302</b>	<b>27.50</b>	<b>22.00</b>

# Engraving with GRS

## GRS® Power Hone Sharpening System

In seconds, you can sharpen gravers and tools **WITHOUT HEAT** with the GRS Power Hone. It gives a sharper, stronger tool edge that makes brighter cuts, cleaner lines and scrolls, more precise beads and, finer shading.

Professionals can save an hour each day because the Diamond Power Hone is fast, accurate and produces longer lasting tool edges. GRS Power Hone uses diamond wheels to sharpen hardened steels, high speed steels and carbides. You can now choose the best tool material for each job because you can sharpen them all.

With its heavy steel housing, continuous-duty motor and double-bearing spindle, the GRS Diamond Power Hone is a sharpener you can depend on for years. And, you'll find it remarkably easy to use.

The **Basic System** includes the Power Hone and a 600 grit Diamond Wheel.

The **Complete System** includes:

- Power Hone
- Dual-Angle Sharpening Fixture
- Quick-Change Wheel Adapter
- 2 Diamond Wheels (260 grit & 600 grit) to sharpen hardened steel, high-speed steel and carbide tools and gravers
- Ceramic Lap, used with Diamond Spray to impart a high final polish
- Diamond Spray
- Wheel Storage Rack

Description	Item#	Each
Basic System, 115V	<b>856-0255</b>	<b>\$449.00</b>
Complete System, 115V	<b>856-0295</b>	<b>978.00</b>



## SilentAire Air Compressor

The SilentAire Compressor is virtually soundless so you can work with it right under your table. You'll never know it's there. But you can be sure its powerful 1/2 HP motor will provide over 2 CFM of air. Ideal for power engravers, wax injectors and more. And it's completely automatic. Made in USA.

### Features:

- 4 gallon storage tank with cooling fins for improved cooling, performance and higher duty cycle
- Tank pressure gauge
- Pressure gauge and regulator with auto-drain of condensate for minimal maintenance
- Coalescent filter for small particle and oil removal
- Moisture trap and filter
- Safety valve
- Air-intake filter
- Handle for balanced carrying

### Specifications:

Motor	1/2 HP
Max. Pressure	114 PSI
Tank Capacity	4 gallons
Displacement	2.15 CFM
Dimensions	13" diameter x 25" high
Noise Level	40 dB
Net Weight	58 lbs.

Description	Item#	Each	Sale
Compressor, 4 gal., 110V	<b>265-3101</b>	<b>\$1,345.00</b>	<b>\$1,145.00</b>

FOB Houston.



## GRS® GraverSmith

This affordable, easy-to-use, reliable unit offers basic engraving and setting capabilities. Ideal for production workers and craftspeople on a budget. Reduces hand fatigue to help improve work quality and speed. Features adjustable rate of 400–8,000 strokes per minute for precise control.

Requires air compressor that supplies at least 1.4 CFM of air at 45 PSI. Includes sturdy foot pedal, built-in air regulator with pressure gauge, remote air filter and water trap, quick-disconnect handpiece fitting, air hoses, carrying handle and fitted holes for storing your handpieces and gravers. Electrical: 110/220V. Backed by a two-year manufacturer's warranty. Made in USA.



921 Monarch Handpiece



901 GMAX Handpiece

Description	Item#	Each
GraverSmith with Foot Control	<b>855-9950</b>	<b>\$795.00</b>
921 Monarch Handpiece	<b>855-9990</b>	<b>269.00</b>
GMAX 901 Handpiece	<b>855-9991</b>	<b>279.00</b>

## GRS® GraverMax G8™

The venerable GraverMax tradition continues with this affordable, compact system. Features adjustable speed of 400–8,000 strokes per minute, adjustable throttle bias for tailoring response to different jobs and advanced valve pulse unit for quiet operation.

Requires air compressor for 1.4 CFM of oil-free air at 45 PSI. Includes foot pedal, dual-stage air regulator, air hoses and quick-disconnect handpiece fittings for all GraverMax handpieces. Measures 5 1/4"W x 12"D x 8 1/4"H. Electrical: 100–240V, 50/60Hz. UL, GS, CE and LPS approved. Backed by a two-year manufacturer's warranty. Made in USA.



Description	Item#	Each
GraverMax G8 with Foot Control	<b>856-0311</b>	<b>\$1,195.00</b>

Handpieces sold separately. See [gesswein.com](http://gesswein.com).

## GRS® GraverMach AT™

Never before has an all-in-one system given the user so much versatility and control. Features a selector knob for choice of hand or foot operation of your handpiece: the touch element offers pressure-sensitive hand control for precision work; the traditional foot pedal offers standard foot control when you prefer.

Requires air compressor for 1.4 CFM of oil-free air at 45 PSI. Includes foot pedal, dual-stage air regulator, air hoses and quick-disconnect handpiece fittings for all GraverMach handpieces. Measures 6"W x 13"D x 8 1/4"H. Electrical: 100–240V, 50/60Hz. UL, GS, CE and LPS approved. Backed by a two-year manufacturer's warranty. Made in USA.



Description	Item#	Each
GraverMach AT with Foot Control	<b>856-0270</b>	<b>\$1,679.00</b>

Handpieces sold separately. See [gesswein.com](http://gesswein.com).



# Engraving with GRS

## GRS® BenchMate

BenchMate is a complete holding system designed to make jewelry fabrication and repair faster and easier. Mounts on the front of the workbench at a convenient height to provide support for workpieces and to reduce slippage and fatigue.

Completely adjustable, pivoting holder positions workpiece and holds it securely while soldering, stone setting, engraving, etc. Removable hand rest provides extra stability for better quality work with less effort.

Made from precision-machined steel to last for years. Tough plastic jaw inserts help prevent marring of metal surfaces. Use it with hand and power tools. Precision-made in the USA.

Choose either right-handed or left-handed versions.

**BenchMate Includes:** Ring clamp & holder, removable hand rest, 2-pair extra jaw inserts, fixed mounting plate, shellac pad, mounting hardware & tools, and third hand tweezers.



## GRS® Engravers Blocks

The Magnablock and the Small Block are extremely well-made devices used to hold objects firmly for engraving, stone setting and general-purpose work. Each holds both large and small items.

Features heavy weight and adjustable drags for keeping the workpiece in the proper position. Uses two industrial ball bearings and a large roller thrust bearing to eliminate side play and wobble. Includes rubber ring pad with Nylon glides, upper jaw plates, five pins and wrench. Made in U.S.A.



Magnablock



GRS 30-piece Attachment Set

### Features:

- Solid steel construction for exceptional durability
- Easily adjustable working angles for comfort
- Precision-machined parts for smooth, efficient operation
- Nonglare satin finish on body, black oxide finish on jaws for protection
- Adjustable friction lock from zero to full lock for crown rotation control

### Specifications:

	Small Block	Magnablock
Model		
Diameter	5 1/8"	5 3/4"
Jaw Size	2 1/2"W x 1 1/2"H	3"W x 1 3/4"H
Max. Jaw Opening	3"	3 1/2"
Net/Ship. Wt.	19/22 lbs.	30/33 lbs.

Description	Item#	Each
Small Block	821-6000	\$428.00
Magnablock	856-0275	580.00
GRS 30-piece Attachment Set	856-0277	88.00

## Meiji Stereo Zoom Microscope

Features high-resolution optics free of chromatic and spherical aberrations for yielding crystal-clear upright and unreversed stereoscopic images with rich contrast and true-to-life color. Great depth of field and long working distances for ample workspace. Ideal for inspection of fine details. Made in Japan.

Includes Acrobat Boom Stand with friction arms and padded headrest for superb flexibility and comfort. Can be easily positioned and quickly swung away when not in use. Friction arms lock in place when needed. Included Ring Light has extra-bright circular fluorescent bulb for cool, glare-free illumination.

### Features:

- High-resolution optics for yielding upright and unreversed stereoscopic images
- Rugged all-metal bodies and components designed to last a lifetime

### Specifications:

Body Style	Binocular*
Zoom Ratio	6.5:1
Zoom Range	0.7x - 4.5x
Magnification	7x - 45x (10x eyepieces)
Field of View	32mm - 5.1mm
Working distance	93mm
Interpupillary Distance	54mm - 75mm
Dioptric Adj	Dual (+/- 5 diopters)

Description	Item#	Each
Meiji Microscope with Acrobat Stand and Ring Light	271-3029	\$1,925.00

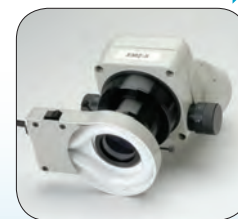
Trinocular available by special order. Call: 1-800-243-4466.



- View on TV
- Reduce Eye Fatigue
- Improve Accuracy-Micro Pavé



Ring Light



Ring Light Circuline Bulb

Model includes 10X eyepiece with eyeshield, 0.5X auxiliary objective lens for increased working distance, Acrobat Boom Stand, Headrest, Ring Light, Dust Cover and Instruction Manual.

# COLORiT



*Jewelry designed by  
Annika Bertisdotter, Goldsmith*



**Starter Set Shown**

## The revolutionary way to add brilliant color to your jewelry!

Add COLORiT ceramic-reinforced composite material to jewelry design and bedazzle your customers with its brilliance. When dried with the included curing light, this material cures into a solid polymer network of exceptional strength and durability. Resists both chipping and cracking better than hard-fired enamels. Won't flake and peel like epoxies. Comes in liquid form, making it easy to apply on both flat and curved surfaces. Produces colorfast, nonshrinking design accents. The possibilities are limited only by your imagination!

### Features:

- Gives your jewelry the look and feel of enamel
- Can be inlaid into any precious or nonprecious metal, including platinum, silver and stainless steel. Can even be inlaid into more COLORiT
- Can be formed into beads or imitation cabochons
- Colors can be used right next to each other to create a cloisonné look. A few seconds of pre-curing eliminates color bleed. Colors can also be worked uncured to create artistic effects
- Colors can be mixed to create any hue, opaque or transparent
- Won't fade over time
- Can be carved, sanded, filed, machined, lathe-turned at high speeds, sandblasted or polished to a high shine right along with the metal
- Highly resistant to scratching, shock and impact. Bright finishes can be restored with a simple repolishing
- So durable that it can withstand tumbling, electroplating and mild ultrasonic, steam and solvent cleaning

### Starter Set Components:

- 8 jars of COLORiT ceramic-reinforced composite material (white, hi-clear, deep black, deep red, deep blue, deep yellow, deep green and neon red)
- Curing Light – The Small Set includes DP2 LED curing light for curing a single piece jewelry at a time
- Light-protected workstation, 13¾"W x 10"D x 9½"H
- Workplate with heater
- COLORiT Premium Bond\*
- Brushes\*
- Applicator tool
- Ring holder
- Instrument holder
- Instructions

### COLORiT® Lite Cube 1

The latest advance in COLORiT technology, the Lite Cube is a compact UV curing chamber with adjustable UV levels and fully-lined metal interior to boost UV reflection and insure homogenous curing of all COLORiT colors. With a 7" x 7" curing area, Lite Cube is ideal for curing small jewelry items such as rings, pendants and bracelets – one at a time or in multiples.



**COLORiT Lite Cube 1 Shown**

Lite Cube includes an industrial safety system which protects the user from UV radiation. Effective, efficient and user-friendly.

### Specifications:

Supply voltage	220V (transformer included for use on 110V)
Power input:	100 W
Dimensions (LxWxD)	13.8" x 10.2" x 9.8"
Curing area	7" x 7"

COLORiT	Item#	Each
Starter Set, 110V	<b>821-3507</b>	<b>\$2,995.00</b>
Lite Cube 1, 110V-220V	<b>821-3502</b>	<b>3,595.00</b>

COLORiT Material, 5-gram Jar	Item#	Each Prices	
		1-2	3+
White*	<b>821-3521</b>	<b>\$67.35</b>	<b>\$60.62</b>
Clear	<b>821-3520</b>	<b>67.35</b>	<b>60.62</b>
Hi-Clear*	<b>821-3551</b>	<b>77.35</b>	<b>69.62</b>
Deep Black*	<b>821-3584</b>	<b>67.35</b>	<b>60.62</b>
Deep Red*	<b>821-3581</b>	<b>67.35</b>	<b>60.62</b>
Deep Blue*	<b>821-3580</b>	<b>67.35</b>	<b>60.62</b>
Deep Yellow*	<b>821-3582</b>	<b>67.35</b>	<b>60.62</b>
Deep Green*	<b>821-3583</b>	<b>67.35</b>	<b>60.62</b>
Neon Red*	<b>821-3592</b>	<b>67.35</b>	<b>60.62</b>
COLORiT Premium Bond, 4ml*	<b>821-3662</b>	<b>275.00</b>	—
COLORiT Bond, 5ml**	<b>821-3663</b>	<b>170.00</b>	—
COLORiT Regular Micro Brushes (pkg. of 10)	<b>821-3558</b>	<b>10.75</b>	—
COLORiT, Fine Micro Brushes (pkg. of 10)	<b>821-3559</b>	<b>11.75</b>	—

\* Included with COLORiT Sets.

\*\* Use with Premium Bond for special applications such as highly polished surfaces or prior to plating.

Hazardous - Ground UPS/FedEx only with Additional Fee for COLORiT 4ml-5mlBond.

**For 18-Gram jars of color and additional colors go to: [gesswein.com](http://gesswein.com)**

# What's New at Gesswein

## Selvyt® JC Polishing Cloth

The Selvyt JC (Jewelry Polishing) cloth is ideal for cleaning gold and most other metals such as brass, copper, platinum and silver. Manufactured in a chemically impregnated red cotton fabric, Selvyt JC is a professional's cloth that can be used at home too. Measures 10" square.



Description	Item#	Each
Selvyt JC Polishing Cloth	<b>820-0287</b>	<b>\$5.25</b>

## Miniature Saw Frames

These sturdy, well-made Miniature Saw Frames from goldsmith Eric Anderson are perfect for performing delicate operations such as gem setting or making relief cuts on prongs which have already been partially folded over stones. Available in 3 colors for distinction between different blade sizes or, differentiation among users.



### Specifications:

Overall Length	2 <sup>3</sup> / <sub>8</sub> "
Throat Depth	Approximately 1 <sup>1</sup> / <sub>4</sub> "
Net Weight	0.54 ounces

Description	Color	Item#	Each
Miniature Saw Frames	Red	<b>187-1175</b>	<b>\$9.50</b>
	Blue	<b>187-1176</b>	<b>9.50</b>
	Yellow	<b>187-1177</b>	<b>9.50</b>
Set of All 3		<b>187-1178</b>	<b>24.50</b>

## Dedeco Silicone Split Laps, 6"

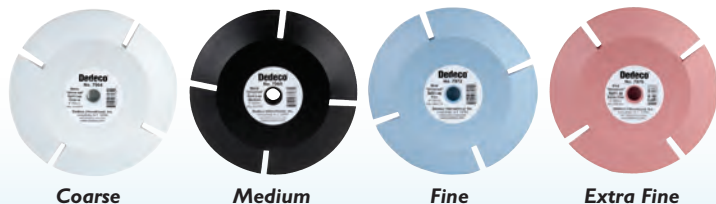
Designed to replace felt laps and rouge, these split laps provide a superior finish on gold and other metals. Each wheel is impregnated with silicone-carbide abrasive. Available in 4 grits. Max operating speed: 3,500rpm. 1/2" Arbor Hole.

**Coarse** – For removing deep scratches

**Medium** – For smoothing and removing light scratches

**Fine** – For high-luster polishing

**Extra-fine** – For super high-luster polishing and final finish



Color	Size	Grit	Item#	Each
White	6 x 1/2"	Coarse	<b>145-0180</b>	<b>\$49.95</b>
Black	6 x 1/2"	Medium	<b>145-0181</b>	<b>49.95</b>
Blue	6 x 1/2"	Fine	<b>145-0182</b>	<b>49.95</b>
Pink	6 x 1/2"	Extra Fine	<b>145-0183</b>	<b>49.95</b>

## Burnishing Compound M

Burnishing Compound M for non-ferrous metals is a liquid burnishing compound for magnetic finishing. This product was specifically designed to keep the magnetic stainless steel pins clean and prevent formation of a "smut" that is often seen with this type of media in a magnetic process. Product can be used to provide cleaning/burnishing of metals such as gold, platinum, silver, brass, copper, aluminum and stainless steel. Product is a non-corrosive acidic mixture. Does not turn water black as others do!



Description	Item#	Each Prices	
		1-3	4+
Burnishing Compound M, 1 gallon	<b>852-0885</b>	<b>\$38.00</b>	<b>\$34.20</b>

## Platinum Pink Compound

Imparts a highly reflective surface on platinum as well as white gold, titanium and other hard white metals.



Bar weight: approx. 5 oz. (145 grams)

Description	Item#	1-2	3+
Platinum Pink Compound	<b>215-1786</b>	<b>\$19.25</b>	<b>\$16.36</b>

## Dedeco Silicone Ring Buffs

These silicone ring buffs are soft and flexible for use on precious metal alloys. Fits on a tapered spindle. Center hole is reinforced with a plastic tube.

**Coarse** – For removing deep scratches

**Medium** – For smoothing and removing light scratches

**Fine** – For high-luster polishing

**Extra-fine** – For super high-luster polishing and final finish



	Coarse	Medium	Fine	Extra Fine		
Color	Size	Grit	For Ring Size	Item#	Each	
White	3" x 5/8" – 3/8"	Coarse	Small	<b>145-0160</b>	<b>\$24.50</b>	
White	3" x 3/4" – 5/8"	Coarse	Medium	<b>145-0161</b>	<b>28.50</b>	
White	4" x 15/16" – 5/8"	Coarse	Large	<b>145-0162</b>	<b>32.50</b>	
Black	3" x 5/8" – 3/8"	Medium	Small	<b>145-0163</b>	<b>24.50</b>	
Black	3" x 3/4" – 5/8"	Medium	Medium	<b>145-0164</b>	<b>28.50</b>	
Black	4" x 15/16" – 5/8"	Medium	Large	<b>145-0165</b>	<b>32.50</b>	
Blue	3" x 5/8" – 3/8"	Fine	Small	<b>145-0166</b>	<b>24.50</b>	
Blue	3" x 3/4" – 5/8"	Fine	Medium	<b>145-0167</b>	<b>28.50</b>	
Blue	4" x 15/16" – 5/8"	Extra Fine	Large	<b>145-0168</b>	<b>32.50</b>	
Pink	3" x 5/8" – 3/8"	Extra Fine	Small	<b>145-0169</b>	<b>24.50</b>	
Pink	3" x 3/4" – 5/8"	Extra Fine	Medium	<b>145-0170</b>	<b>28.50</b>	
Pink	4" x 15/16" – 5/8"	Extra Fine	Large	<b>145-0171</b>	<b>32.50</b>	



## Gesswein®

☎ 1-203-366-5400  
FAX 1-203-366-3953  
☎ Orders: 1-800-243-4466  
FAX Orders: 1-888-454-4377  
Website: gesswein.com  
E-mail: info@gesswein.com

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## Gesswein Canada

317 Attwell Dr., Toronto, ON M9W5C1, Canada

☎ 1-416-675-9171  
FAX 1-416-675-0106  
☎ Orders: 1-800-263-6106  
FAX Orders: 1-888-269-0106  
Website: www.gessweincanada.com

## Gesswein®

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# Promo Code: WB12

Please use promo code when placing your order.  
Sale prices expire April 30, 2012.



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Shop gesswein.com



See our exciting product demos at one of the following shows in 2012:  
G&LW - Tucson, February 2-10, Booth #866-872  
MJSA - NYC, March 11-13, Booth #1005  
JCK - Las Vegas, May 31 - June 4, Booth #B6355

We accept



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